

## Product data sheet: B NLC D OF LI – Sensor for HubSense®

Bluetooth® Networked Lighting Control sensor  
 For light harvesting and presence detection  
 D4I standard

### Product family benefits

DiiA D4I certified incl.parts -351  
 Design freedom due to compact size  
 Easy to integrate in luminaire  
 Minimize internal wiring in combination with DEXAL drivers

### Areas of application

Open offices  
 Individual offices  
 Conference rooms  
 Classrooms  
 Storage and break areas  
 Stairways  
 Toilets

### Benefits

Daylight and Occupancy Sensor DEXAL Module  
 Bluetooth® Networked Lighting Control  
 Control of D4I drivers or DALI drivers  
 Works with inventronics Hubsense  
 Works with Inventronics D4I LED drivers

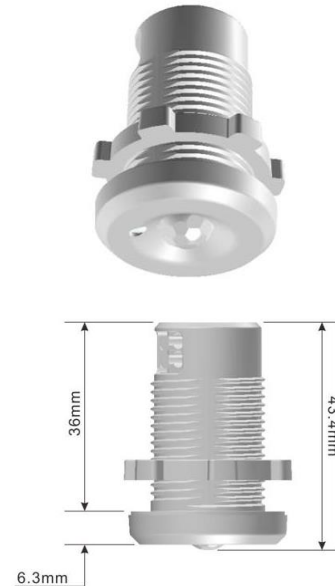
### Approval marks

Bluetooth, D4I, SRRC, UL

Housing material: plastic

### Product Features

- Sensor for luminaire integration based on Bluetooth® Networked Lighting Control
- D4I controlled
- Stand by power consumption <150mW
- 50000 h lifetime at tc max = 60°C
- Installation height up to 5m and +/- 25° beam angle
- Wide detection range up to 8m
- Shield accessory
- 5 years guarantee
- UL certified

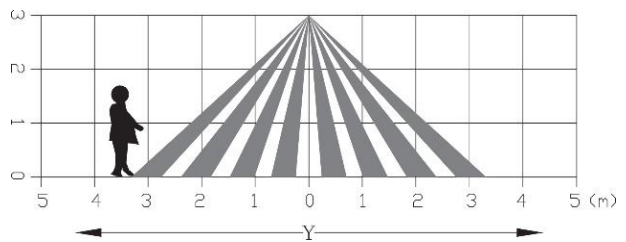
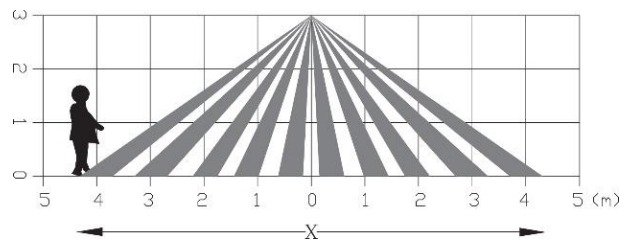
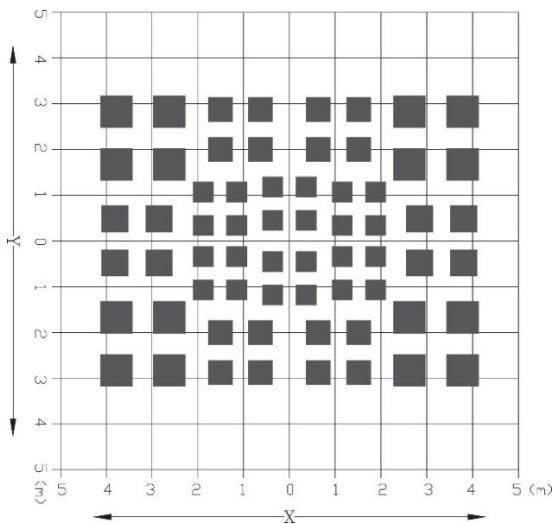
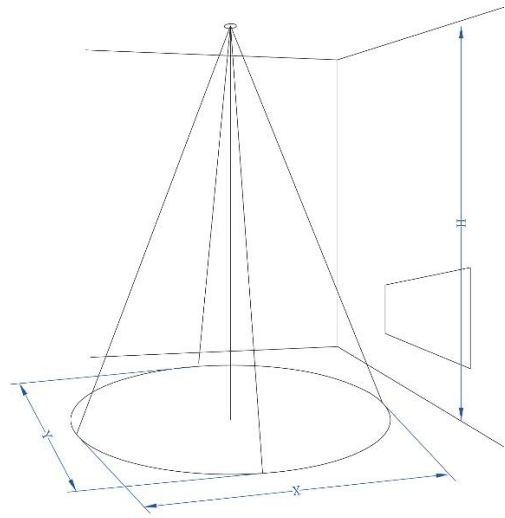
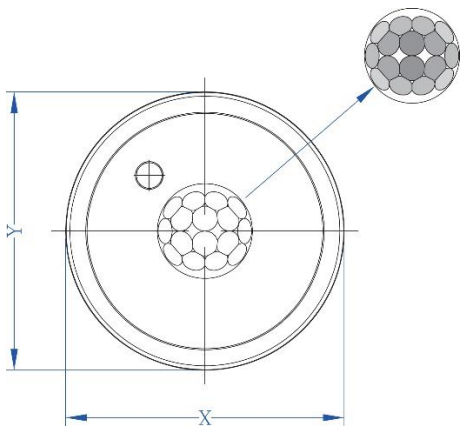
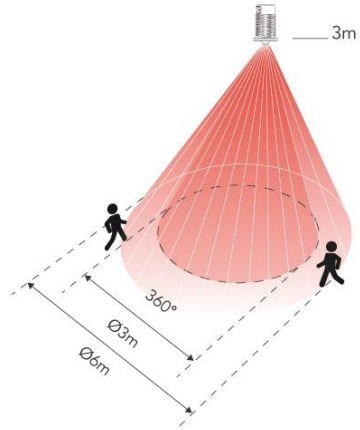
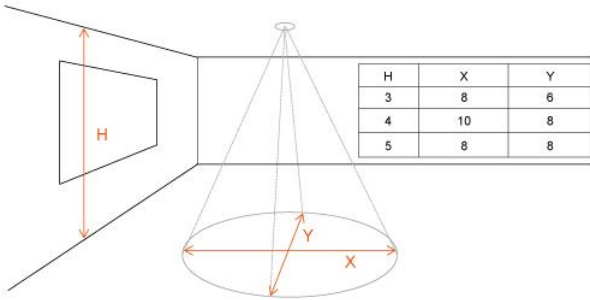


### Electrical Specifications

	Item	Value	Unit	Remarks
INPUT/ OUTPUT	Rated voltage	12 –22.5	Vdc	According to DALI standard
	Average input current	10	mA	
	Peak input current	30	mA	@12V / 250 mA max as per DALI standard
	Power Consumption	<150	mW	
	Radio frequency	2.4	GHz	
	Max Tx Power	+8	dBm	4.884 mW
	Wireless protocol			Qualified Bluetooth mesh provided by SILVAIR
	Range	20	m	Line of sight
CAPABILITIES	Control	D4I		
	Number of connected drivers	4		D4I LED drivers
	Type of sensor			PIR and light sensor
	Detection angle (light sensor)	+/- 20°		50% lux detection
	Mounting heights	5	m	Maximum
	Installations			Luminaire integration and false ceilings
	PIR detection range	6 8	m m	@3m height 20- 35 °C; <75% relative humidity @5m height
	Detection angle (PIR)	360	°	
	Light measurement	5-1000	lux	lux with daylight harvesting function (β-angle: ±25°),
	Reset			Magnet
LEDs indicator			Blue x 1, Red x 1 (pairing, connected & etc. indications)	
ENVIRONMENT	Ambient temperature range t <sub>a</sub>	-20 ...+50	°C	PIR performance @35° are reduced
	Maximum case temperature t <sub>c</sub>	60	°C	(50,000 hrs lifetime at max. Ta = 50°C / Tc = 60°C)
	Max. case temp. in fault condition	110	°C	
	Storage temperature range	-20 ...+70	°C	
	Operating humidity	0 ... 90	%	
	Storage humidity	0 ... 95	%	Not condensing
	Environmental rating	Indoor		
	IP rating	IP 54		Gasket included
	Expected lifetime	50'000	h	Ta=50°C or Tc=60°C
	DIMENSIONS AND WEIGHT	Screw thread length	25	mm
Length		43.5	mm	
Diameter internal		21.8	mm	
Diameter external		28	mm	
Protrusion		6	mm	With PIR 7.5 mm
Mounting hole diameter		22 – 23	mm	
Product weight		12.5	g	
Wire preparation length, input side		7 ... 9	mm	22...18 AWG
Cable cross section, input side		0.25...0.75	mm²	
Maximum allowed cable length	10	m		
STANDARDS	<b>CE</b> <b>LVD:</b> EN61347-2-11 <b>EMC:</b> EN 301 489-1 EN 301 489-17 EN 50581 EN 62479 EN 300 328 <b>DALI 2:</b> EN IEC 62386-101, EN IEC 62386-103 and D4i Part 351 <b>RoHS &amp; REACH compliance</b> <b>UL</b> SRRC			

Detection range

Detection Area versus Hight



### Additional product information

- By integrating the device into a casing, the wireless range could be affected by metal surfaces. Therefore, the wireless range needs to be verified after integration.
- The device could be reset to factory default by magnet (cfr User Instruction)
- The status LED of the device indicates following Network status
  - Blue LED Indicator:
    - Success connection: LED indicator flashes 2s at once
    - No connections: LED indicator flashes 0.3s at once
  - Reset to factory settings:  
LED indicator flashes 1s at once, then quickly flashes and disappears
  - Red LED Indicator:
    - Warm up: LED indicator disappears after 60s
    - When PIR is triggered, the LED indicator quickly flashes at once; continuous triggered, LED indicator flashes every 1s at once
- The device has passed successfully the SILVAIR Testing process.
- The device can be put into operation using the HubSense Commissioning Tool (<https://platform.hubsense.eu>), subject to prior acceptance of the Terms of Use and the Privacy Policy.
- Inventronics may terminate or suspend the use of the HubSense Commissioning Tool at any time and for any or no reason in its sole discretion, even if access and use is continued to be allowed to others.
- The device complies with Bluetooth mesh Standard v1.0. It can also be used in 3rd party Bluetooth mesh network, that complies with this standard and that supports the mesh models of this device, and with certain 3rd party commissioning tools, that support the mesh models of this device. In order to ensure correct interoperability a verification with the 3rd party network components and the 3rd party commissioning tool is necessary in advance. Please contact Inventronics ([support@hubsense.eu](mailto:support@hubsense.eu)) to receive the actual list of supported models for this device.
- Inventronics shall have no liability for any 3rd party commissioning tool and does not make any representations, express or implied, about the availability and/or performance of such commissioning tool.
- Inventronics shall have no liability for and does not make any representations, express or implied, about the connectivity of Inventronics qualified Bluetooth mesh products with any other products, that have passed the SILVAIR Testing process

### ordering information

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Product type	Ordering code
B NLC D HB LI	9BNLCDOFLI000-0000

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